



Certificate Of Fire Approval

This is to certify that the product detailed below will be accepted for compliance with the applicable Lloyd's Register Rules and Regulations and with the International Convention for the Safety of Life at Sea, (SOLAS), 1974, as amended, for use on ships and offshore installations classed with Lloyd's Register, and for use on ships and offshore installations when authorised by contracting governments to issue the relevant certificates, licences, permits etc.

Manufacturer	MCT Brattberg AB
Address	Lyckeåborg, Karlskrona, 371 92, Sweden
Type	Pipe Penetration (Standard Fire Test)
Description	Fire Resisting Pipe Penetration Seals – Type: “MCT Brattberg SR, MSR & DB Series Pipe Glands” for A Class Steel Bulkheads and Decks
Trade Name	SR, MSR & DB Glands
Specified Standard	IMO Res. MSC.307 (88)-(2010 FTP Code) Annex 1 Part 3 IMO MSC.1/Circ.1488

This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Lloyd's Register Marine Polska sp. z o. o. of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document and its supplementary Type Approval Terms and Conditions form part of this Certificate.

This certificate remains valid unless cancelled or revoked, provided the conditions in the attached Design Appraisal Document are complied with and the equipment remains satisfactory in service.

Al Zwycięstwa 13a, Gdańsk, 80-219, Poland

Marta Walk

Fire & Safety - Senior Specialist to Lloyd's Register Marine Polska sp. z o. o.
A member of the Lloyd's Register group

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



DESIGN APPRAISAL DOCUMENT

ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR26270387SFTC

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions, and this Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

BRE Global Ltd, Garston, United Kingdom, Fire Test Reports Nos.: P101462-1022, Issue 2 dated 12 May 2021; P101462-1023 Issue 1, dated 20 December 2020; P101462-1025 Issue 1. dated 9 August 2022; P101462-1027 Issue 1 dated 4 January 2023, P125338-1001 Issue 1, dated 4 April 2024

DBI Danish Institute of Fire and Security Technology, Hvidovre, Denmark; Fire Test Reports Nos.: PGB10366A, dated 6 August 2024, PGB10367A Revision 1, dated 24 March 2025

RISE Research Institutes of Sweden AB, Boras, Sweden; Fire Test Reports, Fire Test Report No.: O100409-1156471-1 dated 20 October 2023

Manufacturer's Drawings: 7250241, rev A, 7250234, rev A & 7250244, rev B

CONDITIONS OF CERTIFICATION

1. Consisting of MCT Brattberg round pipe glands with cylindrical silicone rubber bung tightened with two semicircular compression plates either bolted (MSR) or welded (SR) to the deck or bulkhead.
2. DB gland single pipe variant also accepted bolted to the deck or bulkhead. DB Gland available as EMC conversion.
3. SR gland double pipe variant approved (each pipe diameter max. 15mm).
4. The SR, MSR and DB Series Pipe Transits may be accepted for applications in A Class steel divisions , insulation arrangement for the penetrations are given in the tables below.

Table 1. MSR pipe glands in A-60 divisions

Seal	Maximum Pipe Diameter (mm)	Application	Penetration position	Rating	Drawing
MSR	4-12mm	Steel Bulkhead	Restricted to the fire unexposed side	A-60	7250241, rev A, Fig.1
MSR	4-12mm	Steel Bulkhead	Unrestricted	A-60	7250241, rev A, Fig.2
MSR	4-20mm	Steel Bulkhead	Unrestricted	A-60	7250241, rev A, Fig.3
MSR	4-20mm	Steel Deck	Unrestricted	A-60	7250241, rev A, Fig.4

Table 2. SR pipe glands in A-60 divisions

Seal	Maximum Pipe Diameter (mm)	Application	Penetration position	Rating	Drawing
SR	4-30mm	Steel Bulkhead	Unrestricted	A-60	7250234, rev A, Fig.1
SR	4-114.3mm	Steel Bulkhead	Unrestricted	A-60	7250234, rev A, Fig.2
SR	4-30mm	Steel Deck	Unrestricted	A-60	7250234, rev A, Fig.3
SR	4-114mm	Steel Deck	Unrestricted	A-60	7250234, rev A, Fig.4

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.


DESIGN APPRAISAL DOCUMENT
ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR26270387SFTC
Table 3. DB pipe glands in A-60 divisions

Seal	Maximum Pipe Diameter (mm)	Application	Penetration position	Rating	Drawing
DB	4-16mm	Steel Bulkhead	Unrestricted	A-60	7250244 rev. B, Fig. 1
DB	4-50mm	Steel Bulkhead	Unrestricted	A-60	7250244 rev. B, Fig. 2
DB	4-16mm	Steel Bulkhead	Restricted to the fire unexposed side	A-60	7250244 rev. B, Fig. 4
DB	4-50mm	Steel Bulkhead	Restricted to the fire unexposed side	A-60	7250244 rev. B, Fig. 5
DB	4-50mm	Steel Deck	Unrestricted	A-60	7250244 rev. B, Fig. 3

Table 4. DB pipe glands in A-0 deck

Seal	Model	Maximum Pipe Diameter (mm)	Penetration position	Rating	Drawing
DB	M16-150-30 up to M60-150-30	4-60mm	Unrestricted	A-0	7250244 Rev B, Fig. 6

5. Sleeves types MSR 20-63, SR 25-200 & DB 16-60.
6. Composition, application and installation of subcomponents, including adhesives, seals and any fire retardants, to be maintained in production and used in accordance with originally tested composition formula and method of application and installation, and manufacturer's instructions.
7. Production items are to be manufactured in accordance with a quality control system which shall be maintained to ensure that items are of the same standard as the approved prototype.
8. The certificate holder is solely responsible for the products supplied under this Certificate and to ensure that their products are fully compliant with the relevant statutory regulations and designed, manufactured and installed to the same quality and specifications as the prototype tested, including components that are designed and manufactured by third parties.

 This product has been verified to be fully in accordance with Transport Canada Procedure TP14612E "Procedures for approval of life-saving appliances and fire safety systems, equipment and products" and is suitable to be placed on Canadian Flagged vessel

NOTE (FOR INFORMATION ONLY)

MSR, SR and DB penetrations were tested for a hydrostatic and pneumatic pressure of 5 Bar, as detailed in the referenced document: Lloyd's Register Witness Test Report No. 11212G dated 15.06.2011

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



Page

4 of 4

Certificate No:

LR26270387SFTC

Reference:

GTSO/FIRE/TA/MW/TSO/25-038815/PRJ111005044438

DESIGN APPRAISAL DOCUMENT

ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR26270387SFTC

PLACE OF PRODUCTION

MCT Brattberg AB

Lyckeåborg
SE-37192 Karlskrona
Sweden

M. Walk.

Marta Walk
Senior Specialist, Fire & Safety
Statutory Discipline Team, Marine & Offshore
Lloyd's Register EMEA

Supplementary Type Approval Terms and Conditions

This Certificate and Design Appraisal Document relates to type approval, it certifies that the prototype(s) of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein, it does not mean or imply approval for any other use, nor approval of any products designed or manufactured otherwise than in strict conformity with the said prototype(s)

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.